```
NEWS 15    JAN 29   CAS Registry Number crossover limit increased to 300,000 in
                    multiple databases
NEWS 16    FEB 15   PATDPASPC enhanced with Drug Approval numbers
NEWS 17    FEB 15   RUSSIAPAT enhanced with pre-1994 records
NEWS 18    FEB 23   KOREAPAT enhanced with IPC 8 features and functionality
NEWS 19    FEB 26   MEDLINE reloaded with enhancements
NEWS 20    FEB 26   EMBASE enhanced with Clinical Trial Number field
NEWS 21    FEB 26   TOXCENTER enhanced with reloaded MEDLINE
NEWS 22    FEB 26   IFICDB/IFIPAT/IFIUDB reloaded with enhancements
NEWS 23    FEB 26   CAS Registry Number crossover limit increased from 10,000
                    to 300,000 in multiple databases
NEWS 24    MAR 15   WPIDS/WPIX enhanced with new FRAGHITSTR display format
NEWS 25    MAR 16   CASREACT coverage extended
NEWS 26    MAR 20   MARPAT now updated daily

NEWS EXPRESS    NOVEMBER 10 CURRENT WINDOWS VERSION IS V8.01c, CURRENT
                MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP),
                AND CURRENT DISCOVER FILE IS DATED 25 SEPTEMBER 2006.

NEWS HOURS      STN Operating Hours Plus Help Desk Availability
NEWS LOGIN      Welcome Banner and News Items
NEWS IPC8       For general information regarding STN implementation of IPC 8
NEWS X25        X.25 communication option no longer available

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* * * * * * * * * * * * * STN  Columbus  * * * * * * * * * * * * * * * *

FILE 'HOME' ENTERED AT 12:15:32 ON 21 MAR 2007

=> file reg

---Logging off of STN---


COST IN U.S. DOLLARS                            SINCE FILE       TOTAL
                                                  ENTRY         SESSION
FULL ESTIMATED COST                                0.21           0.21

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STRUCTURE FILE UPDATES:    19 MAR 2007   HIGHEST RN 927525-36-8
DICTIONARY FILE UPDATES:   19 MAR 2007   HIGHEST RN 927525-36-8

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   conducting SmartSELECT searches.
```

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predicted properties as well as tags indicating availability of
experimental property data in the original document. For information
on property searching in REGISTRY, refer to:

http://www.cas.org/ONLINE/UG/regprops.html

=>

Executing the logoff script...

=> LOG Y

Connecting via Winsock to STN

\

Welcome to STN International! Enter x:x

LOGINID:SSSPTA1642BJF

PASSWORD:
TERMINAL (ENTER 1, 2, 3, OR ?):2

* * * * * * * * * *   Welcome to STN International   * * * * * * * * * *

  NEWS 1   Web Page URLs for STN Seminar Schedule - N. America
  NEWS 2   "Ask CAS" for self-help around the clock
  NEWS 3   DEC 18   CA/CAplus pre-1967 chemical substance index entries enhanced
                     with preparation role
  NEWS 4   DEC 18   CA/CAplus patent kind codes updated
  NEWS 5   DEC 18   MARPAT to CA/CAplus accession number crossover limit increased
                     to 50,000
  NEWS 6   DEC 18   MEDLINE updated in preparation for 2007 reload
  NEWS 7   DEC 27   CA/CAplus enhanced with more pre-1907 records
  NEWS 8   JAN 08   CHEMLIST enhanced with New Zealand Inventory of Chemicals
  NEWS 9   JAN 16   CA/CAplus Company Name Thesaurus enhanced and reloaded
  NEWS 10   JAN 16   IPC version 2007.01 thesaurus available on STN
  NEWS 11   JAN 16   WPIDS/WPINDEX/WPIX enhanced with IPC 8 reclassification data
  NEWS 12   JAN 22   CA/CAplus updated with revised CAS roles
  NEWS 13   JAN 22   CA/CAplus enhanced with patent applications from India
  NEWS 14   JAN 29   PHAR reloaded with new search and display fields
  NEWS 15   JAN 29   CAS Registry Number crossover limit increased to 300,000 in
                     multiple databases
  NEWS 16   FEB 15   PATDPASPC enhanced with Drug Approval numbers
  NEWS 17   FEB 15   RUSSIAPAT enhanced with pre-1994 records
  NEWS 18   FEB 23   KOREAPAT enhanced with IPC 8 features and functionality
  NEWS 19   FEB 26   MEDLINE reloaded with enhancements
  NEWS 20   FEB 26   EMBASE enhanced with Clinical Trial Number field
  NEWS 21   FEB 26   TOXCENTER enhanced with reloaded MEDLINE
  NEWS 22   FEB 26   IFICDB/IFIPAT/IFIUDB reloaded with enhancements
  NEWS 23   FEB 26   CAS Registry Number crossover limit increased from 10,000
                     to 300,000 in multiple databases
  NEWS 24   MAR 15   WPIDS/WPIX enhanced with new FRAGHITSTR display format
  NEWS 25   MAR 16   CASREACT coverage extended
  NEWS 26   MAR 20   MARPAT now updated daily

  NEWS EXPRESS   NOVEMBER 10 CURRENT WINDOWS VERSION IS V8.01c, CURRENT
                  MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP),
                  AND CURRENT DISCOVER FILE IS DATED 25 SEPTEMBER 2006.

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* * * * * * * * * * * * * * STN Columbus * * * * * * * * * * * * * * * * * *

FILE 'HOME' ENTERED AT 12:16:16 ON 21 MAR 2007

=> file reg
COST IN U.S. DOLLARS   SINCE FILE   TOTAL
                                                       ENTRY   SESSION
FULL ESTIMATED COST   0.21   0.21

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  conducting SmartSELECT searches.

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predicted properties as well as tags indicating availability of
experimental property data in the original document. For information
on property searching in REGISTRY, refer to:

http://www.cas.org/ONLINE/UG/regprops.html

=> s KAKAGAGSATLSMAYAGARFVFSLVDAMNGKEGVVECSFVKSQETECTYFSTPLLLGKKGIEKNLGIGKVSS
       /SQSP
L1   25 KAKAGAGSATLSMAYAGARFVFSLVDAMNGKEGVVECSFVKSQETECTYFSTPLLLGKKGIEKN
            LGIGKVSS   /SQSP

=> file caplus
COST IN U.S. DOLLARS   SINCE FILE   TOTAL
                                                       ENTRY   SESSION
FULL ESTIMATED COST   29.80   30.01

FILE 'CAPLUS' ENTERED AT 12:16:48 ON 21 MAR 2007
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FILE COVERS 1907 - 21 Mar 2007 VOL 146 ISS 13
FILE LAST UPDATED: 20 Mar 2007 (20070320/ED)

Effective October 17, 2005, revised CAS Information Use Policies apply.
They are available for your review at:

http://www.cas.org/infopolicy.html

=> s l1
L2   20 L1

=> s l2 not py>2002
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L3   2 L2 NOT PY>2002

=> d ibib kwic 1-2

L3   ANSWER 1 OF 2   CAPLUS   COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 2003:18945 CAPLUS
DOCUMENT NUMBER: 138:67676
TITLE: Generation and initial analysis of more than 15,000
                         full-length human and mouse cDNA sequences
AUTHOR(S):   Strausberg, Robert L.; Feingold, Elise A.; Grouse,
                         Lynette H.; Derge, Jeffery G.; Klausner, Richard D.;
                         Collins, Francis S.; Wagner, Lukas; Shenmen, Carolyn
                         M.; Schuler, Gregory D.; Altschul, Stephen F.;
                         Zeeberg, Barry; Buetow, Kenneth H.; Schaefer, Carl F.;
                         Bhat, Narayan K.; Hopkins, Ralph F.; Jordan, Heather;
                         Moore, Troy; Max, Steve I.; Wang, Jun; Hsieh,
                         Florence; Diatchenko, Luda; Marusina, Kate; Farmer,
                         Andrew A.; Rubin, Gerald M.; Hong, Ling; Stapleton,
                         Mark; Soares, M. Bento; Bonaldo, Maria F.; Casavant,
                         Tom L.; Scheetz, Todd E.; Brownstein, Michael J.;
                         Usdin, Ted B.; Toshiyuki, Shiraki; Carninci, Piero;
                         Prange, Christa; Raha, Sam S.; Loquellano, Naomi A.;
                         Peters, Garrick J.; Abramson, Rick D.; Mullahy, Sara
                         J.; Bosak, Stephanie A.; McEwan, Paul J.; McKernan,
                         Kevin J.; Malek, Joel A.; Gunaratne, Preethi H.;
                         Richards, Stephen; Worley, Kim C.; Hale, Sarah;
                         Garcia, Angela M.; Gay, Laura J.; Hulyk, Stephen W.;
                         Villalon, Debbie K.; Muzny, Donna M.; Sodergren, Erica
                         J.; Lu, Xiuhua; Gibbs, Richard A.; Fahey, Jessica;
                         Helton, Erin; Ketteman, Mark; Madan, Anuradha;
                         Rodrigues, Stephanie; Sanchez, Amy; Whiting, Michelle;
                         Madan, Anup; Young, Alice C.; Shevchenko, Yuriy;
                         Bouffard, Gerard G.; Blakesley, Robert W.; Touchman,
                         Jeffrey W.; Green, Eric D.; Dickson, Mark C.;
                         Rodriguez, Alex C.; Grimwood, Jane; Schmutz, Jeremy;
                         Myers, Richard M.; Butterfield, Yaron S. N.;
                         Krzywinski, Martin I.; Skalska, Ursula; Smailus, Duane
                         E.; Schnerch, Angelique; Schein, Jacqueline E.; Jones,
                         Steven J. M.; Marra, Marco A.
CORPORATE SOURCE: National Cancer Institute, NIH, Bethesda, MD,
                         20892-2580, USA
SOURCE: Proceedings of the National Academy of Sciences of the
                         United States of America (2002), 99(26), 16899-16903
                         CODEN: PNASA6; ISSN: 0027-8424
PUBLISHER: National Academy of Sciences

IT   480737-29-9   480737-30-2   480737-31-3   480737-32-4   480737-33-5
      480737-34-6   480737-35-7   480737-36-8   480737-38-0   480737-39-1
      480737-40-4   480737-41-5   480737-42-6   480737-43-7   480737-44-8
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      480737-74-4   480737-75-5   480737-76-6   480737-77-7 480737-78-8
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      480738-98-5   480738-99-6   480739-00-2   480739-01-3   480739-02-4
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      480739-66-0   480739-67-1   480739-68-2   480739-69-3   480739-70-6
      480739-71-7   480739-72-8   480739-73-9   480739-74-0   480739-75-1
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      480739-81-9   480739-82-0   480739-83-1
      RL: BSU (Biological study, unclassified); PRP (Properties); BIOL
      (Biological study)
          (amino acid sequence; generation and initial anal. of more than 15,000
          full-length human and mouse cDNA sequences)

DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 6274138	B1	20010814	US 1997-922957	19970903
US 2002086006	A1	20020704	US 2001-915694	20010725

PRIORITY APPLN. INFO.:   US 1997-922957   A3 19970903
REFERENCE COUNT: 15   THERE ARE 15 CITED REFERENCES AVAILABLE FOR THIS
                            RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT
IT   354641-72-8DP, subfragments are claimed
     RL: BPN (Biosynthetic preparation); PRP (Properties); THU (Therapeutic
     use); BIOL (Biological study); PREP (Preparation); USES (Uses)
        (amino acid sequence; cloning, sequencing and therapeutic use of human
        mitochondrial malate dehydrogenase)

=> FIL REGISTRY

COST IN U.S. DOLLARS   SINCE FILE   TOTAL
                                            ENTRY   SESSION
FULL ESTIMATED COST   6.46   36.47

FILE 'REGISTRY' ENTERED AT 12:18:33 ON 21 MAR 2007
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predicted properties as well as tags indicating availability of
experimental property data in the original document. For information
on property searching in REGISTRY, refer to:

http://www.cas.org/ONLINE/UG/regprops.html

=> S 354641-72-8/RN

L4   1 354641-72-8/RN

=> SET NOTICE 1 DISPLAY

NOTICE SET TO 1 U.S. DOLLAR FOR DISPLAY COMMAND
SET COMMAND COMPLETED

=> D L4 SQIDE 1-

YOU HAVE REQUESTED DATA FROM 1 ANSWERS - CONTINUE? Y/(N):y
THE ESTIMATED COST FOR THIS REQUEST IS 6.55 U.S. DOLLARS
DO YOU WANT TO CONTINUE WITH THIS REQUEST? (Y)/N:y

```
L4    ANSWER 1 OF 1  REGISTRY  COPYRIGHT 2007 ACS on STN
RN    354641-72-8  REGISTRY
CN    Dehydrogenase, malate (human Incyte clone 11587 mitochondria-associated)
      (9CI)  (CA INDEX NAME)
OTHER NAMES:
CN    1: PN: US6274138 SEQID: 1 claimed protein
FS    PROTEIN SEQUENCE
SQL   338

PATENT ANNOTATIONS (PNTE):
Sequence |Patent
Source   |Reference
=========+==========
Not Given|US6274138
         |claimed
         |SEQID 1


SEQ       1 MLSALARPAS AALRRSFSTS AQNNAKVAVL GASGGIGQPL SLLLKNSPLV
         51 SRLTLYDIAH TPGVAADLSH IETKAAVKGY LGPEQLPDCL KGCDVVVIPA
        101 GVPRKPGMTR DDLFNTNATI VATLTAACAQ HCPEAMICVI ANPVNSTIPI
        151 TAEVFKKHGV YNPNKIFGVT TLDIVRANTF VAELKGLDPA RVNVPVIGGH
        201 AGKTIIPLIS QCTPKVDFPQ DQLTALTGRI QEAGTEVVKA KAGAGSATLS
        251 MAYAGARFVF SLVDAMNGKE GVVECSFVKS QETECTYFST PLLLGKKGIE
        301 KNLGIGKVSS FEEKMISDAI PELKASIKKG EDFVKTLK

**RELATED SEQUENCES AVAILABLE WITH SEQLINK**
MF    Unspecified
CI    MAN
SR    CA
LC    STN Files:   CA, CAPLUS, USPATFULL
DT.CA CAplus document type:  Patent
RLD.P Roles for non-specific derivatives from patents:  BIOL (Biological
      study); PREP (Preparation); PRP (Properties); USES (Uses)
             1 REFERENCES IN FILE CA (1907 TO DATE)
             1 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
             1 REFERENCES IN FILE CAPLUS (1907 TO DATE)


=> SET NOTICE LOGIN DISPLAY

NOTICE SET TO OFF  FOR DISPLAY COMMAND
SET COMMAND COMPLETED

=>

=> d his

      (FILE 'HOME' ENTERED AT 12:16:16 ON 21 MAR 2007)

      FILE 'REGISTRY' ENTERED AT 12:16:24 ON 21 MAR 2007
L1           25 S KAKAGAGSATLSMAYAGARFVFSLVDAMNGKEGVVECSFVKSQETECTYFSTPLLLGKKGI

      FILE 'CAPLUS' ENTERED AT 12:16:48 ON 21 MAR 2007
L2           20 S L1
L3            2 S L2 NOT PY>2002

      FILE 'REGISTRY' ENTERED AT 12:18:33 ON 21 MAR 2007
L4            1 S 354641-72-8/RN
                SET NOTICE 1 DISPLAY
                SET NOTICE LOGIN DISPLAY

=> s l4 adn l1
MISSING OPERATOR
```

```
=> s l4 and l1
L5            1 L4 AND L1

=> d sql

L5   ANSWER 1 OF 1   REGISTRY   COPYRIGHT 2007 ACS on STN
SQL  338


=> d seq

L5   ANSWER 1 OF 1   REGISTRY   COPYRIGHT 2007 ACS on STN

SEQ      1 MLSALARPAS AALRRSFSTS AQNNAKVAVL GASGGIGQPL SLLLKNSPLV
        51 SRLTLYDIAH TPGVAADLSH IETKAAVKGY LGPEQLPDCL KGCDVVVIPA
       101 GVPRKPGMTR DDLFNTNATI VATLTAACAQ HCPEAMICVI ANPVNSTIPI
       151 TAEVFKKHGV YNPNKIFGVT TLDIVRANTF VAELKGLDPA RVNVPVIGGH
       201 AGKTIIPLIS QCTPKVDFPQ DQLTALTGRI QEAGTEVVKA KAGAGSATLS
                                                     == ==========
       251 MAYAGARFVF SLVDAMNGKE GVVECSFVKS QETECTYFST PLLLGKKGIE
           ========== ========== ========== ========== ==========
       301 KNLGIGKVSS FEEKMISDAI PELKASIKKG EDFVKTLK
           ==========
HITS AT:   239-310

**RELATED SEQUENCES AVAILABLE WITH SEQLINK**


=>

---Logging off of STN---



=>
Executing the logoff script...


=> LOG Y

COST IN U.S. DOLLARS                          SINCE FILE      TOTAL
                                                 ENTRY       SESSION
FULL ESTIMATED COST                              15.27        51.74

STN INTERNATIONAL LOGOFF AT 12:22:30 ON 21 MAR 2007



Connecting via Winsock to STN



Welcome to STN International!   Enter x:x

LOGINID:SSSPTA1642BJF

PASSWORD:
TERMINAL (ENTER 1, 2, 3, OR ?):2


* * * * * * * * *   Welcome to STN International   * * * * * * * * *

 NEWS  1        Web Page URLs for STN Seminar Schedule - N. America
```

```
NEWS  2            "Ask CAS" for self-help around the clock
NEWS  3   DEC 18   CA/CAplus pre-1967 chemical substance index entries enhanced
                   with preparation role
NEWS  4   DEC 18   CA/CAplus patent kind codes updated
NEWS  5   DEC 18   MARPAT to CA/CAplus accession number crossover limit increased
                   to 50,000
NEWS  6   DEC 18   MEDLINE updated in preparation for 2007 reload
NEWS  7   DEC 27   CA/CAplus enhanced with more pre-1907 records
NEWS  8   JAN 08   CHEMLIST enhanced with New Zealand Inventory of Chemicals
NEWS  9   JAN 16   CA/CAplus Company Name Thesaurus enhanced and reloaded
NEWS 10   JAN 16   IPC version 2007.01 thesaurus available on STN
NEWS 11   JAN 16   WPIDS/WPINDEX/WPIX enhanced with IPC 8 reclassification data
NEWS 12   JAN 22   CA/CAplus updated with revised CAS roles
NEWS 13   JAN 22   CA/CAplus enhanced with patent applications from India
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NEWS 18   FEB 23   KOREAPAT enhanced with IPC 8 features and functionality
NEWS 19   FEB 26   MEDLINE reloaded with enhancements
NEWS 20   FEB 26   EMBASE enhanced with Clinical Trial Number field
NEWS 21   FEB 26   TOXCENTER enhanced with reloaded MEDLINE
NEWS 22   FEB 26   IFICDB/IFIPAT/IFIUDB reloaded with enhancements
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                   to 300,000 in multiple databases
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NEWS 26   MAR 20   MARPAT now updated daily

NEWS EXPRESS   NOVEMBER 10 CURRENT WINDOWS VERSION IS V8.01c, CURRENT
               MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP),
               AND CURRENT DISCOVER FILE IS DATED 25 SEPTEMBER 2006.

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NEWS LOGIN     Welcome Banner and News Items
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                                                    ENTRY        SESSION
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=> s KAKAGAGSATLSMAYAGARFVFSLVDAMNGKEGVVECSFVKSQETECTYFSTPLLLGKKGIEKNLGIGKVSS/SASP
'SASP' IS NOT A VALID FIELD CODE
L1   0 KAKAGAGSATLSMAYAGARFVFSLVDAMNGKEGVVECSFVKSQETECTYFSTPLLLGKKGIEKN
                LGIGKVSS/SASP

=> s KAKAGAGSATLSMAYAGARFVFSLVDAMNGKEGVVECSFVKSQETECTYFSTPLLLGKKGIEKNLGIGKVSS/SQsp
L2   25 KAKAGAGSATLSMAYAGARFVFSLVDAMNGKEGVVECSFVKSQETECTYFSTPLLLGKKGIEKN
                LGIGKVSS/SQSP

=> file caplus
COST IN U.S. DOLLARS   SINCE FILE   TOTAL
                                                   ENTRY   SESSION
FULL ESTIMATED COST   29.80   30.01

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FILE LAST UPDATED: 20 Mar 2007   (20070320/ED)

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=> s l2
L3   20 L2

=> s l3 not py>2003
      4002477 PY>2003
L4   3 L3 NOT PY>2003

=> d ibib 1-3

L4   ANSWER 1 OF 3 CAPLUS COPYRIGHT 2007 ACS on STN

```
ACCESSION NUMBER:        2003:942764  CAPLUS
DOCUMENT NUMBER:         140:3792
TITLE:                   Genes expressed in atherosclerotic tissue and their
                         use in diagnosis and pharmacogenetics
INVENTOR(S):             Nevins, Joseph; West, Mike; Goldschmidt, Pascal
PATENT ASSIGNEE(S):      Duke University, USA
SOURCE:                  PCT Int. Appl., 408 pp.
                         CODEN: PIXXD2
DOCUMENT TYPE:           Patent
LANGUAGE:                English
FAMILY ACC. NUM. COUNT:  5
PATENT INFORMATION:
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PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2003091391	A2	20031106	WO 2002-XA38221	20021112

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      W:  AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ,
          DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IS, JP,
          KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN,
          MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM,
          TR, TT, UA, UG, UZ, VN, YU, ZA, ZW
      RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, BG,
          CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL,
          PT, SE, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR,
          NE, SN, TD, TG
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WO 2003091391	A2	20031106	WO 2002-US38221	20021112

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          DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IS, JP,
          KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN,
          MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM,
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PRIORITY APPLN. INFO.:                         US 2002-374547P   P  20020423
                                               US 2002-420784P   P  20021024
                                               US 2002-421043P   P  20021025
                                               US 2002-424680P   P  20021108
                                               WO 2002-US38221   A  20021112


L4    ANSWER 2 OF 3  CAPLUS  COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER:        2003:18945  CAPLUS
DOCUMENT NUMBER:         138:67676
TITLE:                   Generation and initial analysis of more than 15,000
                         full-length human and mouse cDNA sequences
AUTHOR(S):               Strausberg, Robert L.; Feingold, Elise A.; Grouse,
                         Lynette H.; Derge, Jeffery G.; Klausner, Richard D.;
                         Collins, Francis S.; Wagner, Lukas; Shenmen, Carolyn
                         M.; Schuler, Gregory D.; Altschul, Stephen F.;
                         Zeeberg, Barry; Buetow, Kenneth H.; Schaefer, Carl F.;
                         Bhat, Narayan K.; Hopkins, Ralph F.; Jordan, Heather;
                         Moore, Troy; Max, Steve I.; Wang, Jun; Hsieh,
                         Florence; Diatchenko, Luda; Marusina, Kate; Farmer,
                         Andrew A.; Rubin, Gerald M.; Hong, Ling; Stapleton,
                         Mark; Soares, M. Bento; Bonaldo, Maria F.; Casavant,
                         Tom L.; Scheetz, Todd E.; Brownstein, Michael J.;
                         Usdin, Ted B.; Toshiyuki, Shiraki; Carninci, Piero;
                         Prange, Christa; Raha, Sam S.; Loquellano, Naomi A.;
                         Peters, Garrick J.; Abramson, Rick D.; Mullahy, Sara
                         J.; Bosak, Stephanie A.; McEwan, Paul J.; McKernan,
                         Kevin J.; Malek, Joel A.; Gunaratne, Preethi H.;
                         Richards, Stephen; Worley, Kim C.; Hale, Sarah;
                         Garcia, Angela M.; Gay, Laura J.; Hulyk, Stephen W.;
                         Villalon, Debbie K.; Muzny, Donna M.; Sodergren, Erica
```

J.; Lu, Xiuhua; Gibbs, Richard A.; Fahey, Jessica;
Helton, Erin; Ketteman, Mark; Madan, Anuradha;
Rodrigues, Stephanie; Sanchez, Amy; Whiting, Michelle;
Madan, Anup; Young, Alice C.; Shevchenko, Yuriy;
Bouffard, Gerard G.; Blakesley, Robert W.; Touchman,
Jeffrey W.; Green, Eric D.; Dickson, Mark C.;
Rodriguez, Alex C.; Grimwood, Jane; Schmutz, Jeremy;
Myers, Richard M.; Butterfield, Yaron S. N.;
Krzywinski, Martin I.; Skalska, Ursula; Smailus, Duane
E.; Schnerch, Angelique; Schein, Jacqueline E.; Jones,
Steven J. M.; Marra, Marco A.

CORPORATE SOURCE:	National Cancer Institute, NIH, Bethesda, MD, 20892-2580, USA
SOURCE:	Proceedings of the National Academy of Sciences of the United States of America (2002), 99(26), 16899-16903 CODEN: PNASA6; ISSN: 0027-8424
PUBLISHER:	National Academy of Sciences
DOCUMENT TYPE:	Journal
LANGUAGE:	English
REFERENCE COUNT:	18 THERE ARE 18 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4   ANSWER 3 OF 3 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER:	2001:592185 CAPLUS
DOCUMENT NUMBER:	135:177271
TITLE:	Cloning, sequencing and therapeutic use of human mitochondrial malate dehydrogenase
INVENTOR(S):	Bandman, Olga; Corley, Neil C.; Shah, Purvi
PATENT ASSIGNEE(S):	Incyte Genomics, Inc., USA
SOURCE:	U.S., 34 pp. CODEN: USXXAM
DOCUMENT TYPE:	Patent
LANGUAGE:	English
FAMILY ACC. NUM. COUNT:	1
PATENT INFORMATION:	

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 6274138	B1	20010814	US 1997-922957	19970903
US 2002086006	A1	20020704	US 2001-915694	20010725
PRIORITY APPLN. INFO.:			US 1997-922957	A3 19970903
REFERENCE COUNT:	15		THERE ARE 15 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT	

=> d kwic 1

L4   ANSWER 1 OF 3 CAPLUS COPYRIGHT 2007 ACS on STN
IT   480917-91-7   480917-95-1   480919-09-3   480919-29-7, CAGF28 (human)
      480919-95-7, Brachyury (human gene TBX1)   480919-98-0, Cbf5p (human cell
      line HeLa gene CBF5)   480919-99-1   480920-09-0, GenBank AAB94761
      480920-38-5, GenBank AAB96655   480920-71-6, Mad4 (human gene Mad4)
      480921-77-5, Complement component C2 (human gene C2)   480922-00-7,
      GenBank AAB99730   480922-06-3   480922-10-9, BC-2 protein (human)
      480922-11-0, Cyclophilin-33B (human gene CYP-33)   480922-49-4, Mucin
      (human gene MUC3)   480924-07-0 480924-12-7   480924-20-7,
      Transcription factor LZIP (human)   480924-63-8   480924-67-2
      480924-69-4, GenBank AAC05601   480924-79-6, SSX4 (human gene SSX4)
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      480926-41-8   480926-42-9   480926-43-0   480927-06-8   480927-23-9
      480928-15-2, GenBank AAC15791   480928-16-3   480929-54-2   480929-55-3
      480929-66-6, Sorting nexin 2 (human gene SNX2)   480929-83-7   480929-92-8
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      480933-21-9   480933-35-5   480933-36-6   480933-45-7, PLE21 protein

(human gene ple21)   480933-46-8   480933-64-0, GenBank AAC28644
480934-15-4, Nucleoplasmin-3 (human gene NPM3)   480934-16-5,
Lysophospholipase (human gene LPL1)   480934-44-9, Protein (human gene
JH8)   480934-77-8, ATPase (human)   480934-93-8, GenBank AAC33132
480935-42-0, GenBank AAC34245   480935-86-2   480935-99-7, DNA repair
exonuclease (human gene REC1)   480936-36-5   480936-86-5, Cullin 1 (human
cell line HeLa)   480936-95-6, Molecular chaperone DnaJ (human)
480937-06-2, Protein (human gene NAP)   480937-27-7   480937-28-8
480937-37-9, Phosphomevalonate kinase (human)   480937-40-4   480938-12-3
480938-75-8, Kallistatin (human gene PI4)   480938-96-3   480938-99-6
480939-09-1, GenBank AAC41749   480939-14-8   480940-77-0, GenBank
AAC41930   480940-78-1, GenBank AAC41931   480940-88-3   480941-34-2
480941-37-5   480941-39-7   480941-43-3   480941-52-4, Trio isoform
(human)   480941-62-6   480941-63-7, P47 LBC oncogene (human clone 9a2)
480941-65-9   480942-01-6, SLP-76 (human)   480942-04-9   480942-30-1
480942-66-3   480942-70-9   480943-40-6   480943-41-7   480943-46-2
480943-51-9, Protein RGP4 (human)   480943-57-5   480943-68-8
480943-84-8   480944-02-3, Protein B (human cell line HT-1080)
480944-09-0, Metaxin (human gene MTX)   480944-41-0, Hs-CUL-1 (human gene
Hs-cul-1)   480944-46-5, BA46 (human)   480944-70-5   480944-71-6
480945-09-3   480945-16-2   480945-17-3, DNA polymerase gamma (human)
480945-22-0, STAM (human)   480945-23-1, LIM protein (human gene LPP)
480946-18-7, FUSE binding protein 3 (human gene FBP3)   480946-29-0,
GenBank AAC50955   480946-82-5   480947-84-0   480948-05-8, C2H2-150
(human)   480948-26-3, Uncoupling protein 3, UCP3S (human)   480948-28-5,
GenBank AAC51360   480948-30-9, Phosphomannomutase (human gene PMM2)
480950-82-1, Zinc finger protein (human clone PRD51)   480951-45-9, Dead
box, Y isoform (human gene DBY)   480951-46-0   480952-58-7   480953-12-6,
G-protein coupled receptor RE2 (human)   480953-60-4, Protein UP50 (human
urine)   480953-61-5, GenBank AAC62108   480953-69-3, GenBank AAC62428
480953-76-2   480953-89-7   480954-43-6   480954-51-6   480954-63-0,
Gamma2-adaptin (human gene G2AD)   480956-14-7, GenBank AAC70911
480956-29-4   480956-30-7, GenBank AAC72105   480956-35-2   480958-09-6,
Protein (human clone 559 125-amino acid)   480958-16-5, Protein (human
clone 638 198-amino acid)   480958-17-6, GenBank AAC72956   480958-22-3,
GenBank AAC72961   480958-31-4   480958-60-9, GenBank AAC79844
480959-13-5   481118-85-8   481122-86-5, AML1c protein (human gene AML1)
481122-88-7, AML1b protein (human gene AML1)   481123-11-9, VAMP5 (human)
481123-58-4   481123-89-1   481125-18-2   481125-24-0, GenBank AAD00702
481125-83-1, GenBank AAD01614   481126-46-9   481126-50-5, GenBank
AAD02203   481126-60-7   481126-75-4, GenBank AAD03161   481126-84-5, AP-3
complex sigma3A subunit (human)   481127-04-2   481128-89-6, GenBank
AAA66020   481128-90-9   481129-26-4   481129-29-7   481129-30-0
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481129-60-6, GenBank BAA34787   481130-03-4   481131-07-1, Protein (human
gene HRIHFB2157)   481131-19-5, Protein MD-1 (human)   481131-62-8
481131-82-2   481132-35-8   481132-38-1   481132-48-3   481132-99-4
481133-00-0, Fln29 (human gene fln29)   481133-01-1, GenBank BAA78640
481133-20-4, DEPP (human gene DEPP)   481133-61-3   481133-62-4
481133-70-4   481134-93-4   481134-94-5   481134-96-7   481135-07-3
481135-94-8   481136-83-8   481137-03-5, GenBank BAA06626   481137-13-7
481137-22-8   481137-23-9   481137-34-2, L-histidine decarboxylase (human)
481137-54-6   481137-57-9   481138-12-9   481138-14-1   481138-46-9
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GenBank BAA07508   481140-37-8   481140-39-0, GenBank AAA70417
481140-83-4   481140-89-0, GenBank BAA05124   481140-98-1, 5'-Nucleotidase
(human)   481140-99-2   481141-09-7   481141-11-1   481141-13-3
481141-23-5   481141-28-0   481141-29-1   481141-52-0   481142-07-8,
PK-120 precursor (human)   481143-01-5, Sky (human cell line HepG2 gene
sky)   481143-06-0   481143-08-2   481143-10-6   481143-14-0   481143-35-5
481143-50-4   481143-52-6   481143-57-1   481143-61-7   481143-87-7, Human
rab GDI (human)   481144-86-9, Carbamyl phosphate synthetase I (human)
481144-91-6   481144-97-2, LIMK-2 (human clone limk-2)   481145-06-6,
Protein (human 349-amino acid)   481145-07-7   481145-28-2   481145-31-7,
Protein (human 384-amino acid)

RL: BSU (Biological study, unclassified); PRP (Properties); BIOL
(Biological study)
(amino acid sequence; genes expressed in atherosclerotic tissue and
their use in diagnosis and pharmacogenetics)

=> FIL REGISTRY

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                                                    ENTRY   SESSION
FULL ESTIMATED COST   6.36   36.37

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=> S 480924-12-7/RN

L5   1 480924-12-7/RN

=> SET NOTICE 1 DISPLAY

NOTICE SET TO 1 U.S. DOLLAR FOR DISPLAY COMMAND
SET COMMAND COMPLETED

=> D L5 SQIDE 1-

YOU HAVE REQUESTED DATA FROM 1 ANSWERS - CONTINUE? Y/(N):y
THE ESTIMATED COST FOR THIS REQUEST IS 6.55 U.S. DOLLARS
DO YOU WANT TO CONTINUE WITH THIS REQUEST? (Y)/N:y

L5   ANSWER 1 OF 1   REGISTRY   COPYRIGHT 2007 ACS on STN
RN   480924-12-7   REGISTRY
CN   Malate dehydrogenase precursor (human gene MDH) (9CI)   (CA INDEX NAME)
OTHER NAMES:
CN   1934: PN: WO03038130 FIGURE: 3 claimed protein
CN   2041: PN: WO03091391 TABLE: 20 unclaimed protein
CN   2376: PN: WO2004038376 TABLE: 5 unclaimed protein
CN   4009: PN: US20040009481 TABLE: 1 claimed protein
CN   GenBank AAC03787
CN   GenBank AAC03787 (Translated from: GenBank AF047470)
FS   PROTEIN SEQUENCE
SQL   338

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PATENT ANNOTATIONS (PNTE):
Sequence |Patent
Source   |Reference
=========+============
Not Given|WO2003038130
         |claimed
         |FIGURE 3


SEQ      1 MLSALARPVS AALRRSFSTS AQNNAKVAVL GASGGIGQPL SLLLKNSPLV
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       151 TAEVFKKHGV YNPNKIFGVT TLDIVRANTF VAELKGLDPA RVNVPVIGGH
       201 AGKTIIPLIS QCTPKVDFPQ DQLTALTGRI QEAGTEVVKA KAGAGSATLS
       251 MAYAGARFVF SLVDAMNGKE GVVECSFVKS QETECTYFST PLLLGKKGIE
       301 KNLGIGKVSS FEEKMISDAI PELKASIKKG EDFVKTLK

**RELATED SEQUENCES AVAILABLE WITH SEQLINK**
MF    Unspecified
CI    MAN
SR    GenBank
LC    STN Files:   CA, CAPLUS, TOXCENTER, USPATFULL
DT.CA CAplus document type:  Patent
RL.P  Roles from patents:  BIOL (Biological study); PRP (Properties)
          4 REFERENCES IN FILE CA (1907 TO DATE)
          4 REFERENCES IN FILE CAPLUS (1907 TO DATE)


=> SET NOTICE LOGIN DISPLAY

NOTICE SET TO OFF  FOR DISPLAY COMMAND
SET COMMAND COMPLETED

=>

=> d his

     (FILE 'HOME' ENTERED AT 12:23:05 ON 21 MAR 2007)

     FILE 'REGISTRY' ENTERED AT 12:23:15 ON 21 MAR 2007
L1          0 S KAKAGAGSATLSMAYAGARFVFSLVDAMNGKEGVVECSFVKSQETECTYFSTPLLLGKKGI
L2         25 S KAKAGAGSATLSMAYAGARFVFSLVDAMNGKEGVVECSFVKSQETECTYFSTPLLLGKKGI

     FILE 'CAPLUS' ENTERED AT 12:23:42 ON 21 MAR 2007
L3         20 S L2
L4          3 S L3 NOT PY>2003

     FILE 'REGISTRY' ENTERED AT 12:24:24 ON 21 MAR 2007
L5          1 S 480924-12-7/RN
              SET NOTICE 1 DISPLAY
              SET NOTICE LOGIN DISPLAY

=> s l5 and l2
L6          1 L5 AND L2

=> d sql seq

L6   ANSWER 1 OF 1  REGISTRY   COPYRIGHT 2007 ACS on STN
SQL  338

SEQ      1 MLSALARPVS AALRRSFSTS AQNNAKVAVL GASGGIGQPL SLLLKNSPLV
        51 SRLTLYDIAH TPGVAADLSH IETKAAVKGY LGPEQLPDCL KGCDVVVIPA
       101 GVPRKPGMTR DDLFNTNATI VATLTAACAQ HCPEAMICVI ANPVNSTIPI
       151 TAEVFKKHGV YNPNKIFGVT TLDIVRANTF VAELKGLDPA RVNVPVIGGH
       201 AGKTIIPLIS QCTPKVDFPQ DQLTALTGRI QEAGTEVVKA KAGAGSATLS
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                                                 ==  ==========
        251 MAYAGARFVF SLVDAMNGKE GVVECSFVKS QETECTYFST PLLLGKKGIE
            ========== ========== ========== ========== ==========
        301 KNLGIGKVSS FEEKMISDAI PELKASIKKG EDFVKTLK
            ==========
HITS AT:    239-310

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=>
Executing the logoff script...


=> LOG Y

COST IN U.S. DOLLARS                              SINCE FILE      TOTAL
                                                    ENTRY       SESSION
FULL ESTIMATED COST                                  12.57        48.94

STN INTERNATIONAL LOGOFF AT 12:25:02 ON 21 MAR 2007



Connecting via Winsock to STN



Welcome to STN International!   Enter x:x

LOGINID:SSSPTA1642BJF

PASSWORD:
TERMINAL (ENTER 1, 2, 3, OR ?):2


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 NEWS  2            "Ask CAS" for self-help around the clock
 NEWS  3   DEC 18   CA/CAplus pre-1967 chemical substance index entries enhanced
                    with preparation role
 NEWS  4   DEC 18   CA/CAplus patent kind codes updated
 NEWS  5   DEC 18   MARPAT to CA/CAplus accession number crossover limit increased
                    to 50,000
 NEWS  6   DEC 18   MEDLINE updated in preparation for 2007 reload
 NEWS  7   DEC 27   CA/CAplus enhanced with more pre-1907 records
 NEWS  8   JAN 08   CHEMLIST enhanced with New Zealand Inventory of Chemicals
 NEWS  9   JAN 16   CA/CAplus Company Name Thesaurus enhanced and reloaded
 NEWS 10   JAN 16   IPC version 2007.01 thesaurus available on STN
 NEWS 11   JAN 16   WPIDS/WPINDEX/WPIX enhanced with IPC 8 reclassification data
 NEWS 12   JAN 22   CA/CAplus updated with revised CAS roles
 NEWS 13   JAN 22   CA/CAplus enhanced with patent applications from India
 NEWS 14   JAN 29   PHAR reloaded with new search and display fields
 NEWS 15   JAN 29   CAS Registry Number crossover limit increased to 300,000 in
                    multiple databases
 NEWS 16   FEB 15   PATDPASPC enhanced with Drug Approval numbers
 NEWS 17   FEB 15   RUSSIAPAT enhanced with pre-1994 records
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